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CGMP-PHOSPHODISTERASE
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PA : OTSUKA PHARMACEUTICAL CO., LTD.
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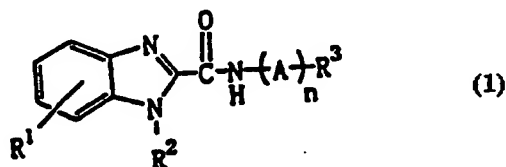
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(21) International Application Number: PCT/JP96/01841 (22) International Filing Date: 3 July 1996 (03.07.96) (30) Priority Data: 7/171807 7 July 1995 (07.07.95) JP (71) Applicant (for all designated States except US): OTSUKA PHARMACEUTICAL CO., LTD. [JP/JP]; 9, Kanda Tsukasacho 2-chome, Chiyoda-ku, Tokyo 101 (JP). (72) Inventors; and (75) Inventors/Applicants (for US only): NISHI, Takao [JP/JP]; 2-28, Aza Sotobiraki, Tarohachisu, Kitajimacho, Itano-gun, Tokushima 771-02 (JP). SATO, Seiji [JP/JP]; 6-50-304, Fukushima 1-chome, Tokushima-shi, Tokushima 770 (JP). NAGATANI, Takeshi [JP/JP]; 2234-1, Tsubukuhonmachi, Kurume-shi, Fukuoka 830 (JP). YUKAWA, Hirotaka [JP/JP]; 52, Aza Rokumai, Tateiwa, Muiyacho, Naruto-shi, Tokushima 772 (JP). KOGA, Nobuyuki [JP/JP]; 16-7, Minami-kuramotocho 1-chome, Tokushima-shi, Tokushima 770 (JP). SAITO, Masahiro [JP/JP]; 144, Aza Gomai, Tateiwa, Muiyacho, Naruto-shi, Tokushima 772 (JP). YOSHINAGA, Shinji [JP/JP]; Panahaitsu 23, 1090-18, Kawauchicho Kagasuno, Tokushima-shi, Tokushima 771-01 (JP).		(74) Agents: ASAMURA, Kiyoshi et al.; New Ohtemachi Building, Room 331, 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100 (JP). (81) Designated States: AU, CA, CN, KR, MX, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.	

(54) Title: NOVEL BENZIMIDAZOLE DERIVATIVES HAVING CGMP-PHOSPHODISTERASE INHIBITING ACTIVITY



(57) Abstract

The present invention provides novel benzimidazole derivatives or salts thereof represented by general formula (1), wherein R¹ is a hydrogen atom or a halogen atom; R² is a phenyl-lower alkyl group; R³ is a heterocyclic group selected from the group consisting of an indolyl group, indolinyl group, 1H-indazolyl group, 2(1H)-quinolinonyl group, 3,4-dihydro-2(1H)-quinolinonyl group and 1,4-benzoxazinyl group; A is a lower alkylene group; n is 0 or 1. The benzimidazole derivatives or salts of the present invention are effective agents for treating various arteriosclerotic diseases.